BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Roads and Drains at Simhadri Layout, Sai Garden Layout and Surrounding in Ward No.11, (Kuvempunagara).

Estimated Cost : Rs. 100.00 Lakhs

Job Code: 011-22-000004

Head of Account : P-3075 Special Comprehensive Development Works

Name of Agency: M/s. Sathya Constructions Prop: R. Satheesh, No. 600, Down Bazaar Road, Yelahanka, Bangalore - 64.

Work order No: EE/BTP/BBMP/E-PMT/11(49272)/WO/59/2021-22 D: 18-03-2022.

Sl No	Description of work	Mesurement						Qty	Rate
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :	05-04-2023							
13	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	New Sai Garden								
	Main Road								
	UGD Cutting Portion								
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	15.00	1.20	1.20	1.20	0.45	8.10	
		1	4.30	1.20	1.20	1.20	0.45	2.32	
	1st Cross								
		1	15.00	1.20	1.20	1.20	0.40	7.20	
		1	15.00	1.20	1.20	1.20	0.40	7.20	
		1	13.50	1.20	1.20	1.20	0.45	7.29	
	Main Road	1	15.00	9.50	8.30	8.90	0.25	33.38	
		1	15.00	8.30	8.30	8.30	0.25	31.13	
		1	15.00	8.30	8.30	8.30	0.25	31.13	
		1	15.00	8.30	7.90	8.10	0.25	30.38	
		1	15.00	7.90	8.40	8.15	0.25	30.56	

Sl No	Description of work	Mesurement						Qty	Rate
		No.	L	B1	B2	Av.,B	D		
		1	15.00	8.40	8.40	8.40	0.25	31.50	
		1	15.00	8.40	8.20	8.30	0.25	31.13	
		1	15.00	8.20	8.10	8.15	0.25	30.56	
		1	15.00	8.10	6.60	7.35	0.25	27.56	
		1	4.30	6.60	4.40	5.50	0.25	5.91	
	Deduction for Chambers								
	Chambers	-2	1.00			0.70	0.25	-0.35	
	Man holes	-5	0.64	Area of Circle = (3.142*0.9*0.9)/4 = 0.64			0.25	-0.80	
			Total Qty =					**458.94**	**Cum**
			Total Qty Ltd to App Qty =					**458.64**	**Cum**

Assistant Engineer
New Ward No. 15

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Sl No	Description of work	Mesurement						Qty	Rate
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :	19-04-2023							
14	Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications								
	New Sai Garden								
	Main Road	1	15.00	9.50	8.30	8.90		133.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	7.90	8.10		121.50	
		1	15.00	7.90	8.40	8.15		122.25	
		1	15.00	8.40	8.60	8.50		127.50	
		1	15.00	8.60	8.40	8.50		127.50	
		1	15.00	8.40	8.40	8.40		126.00	
		1	15.00	8.40	8.20	8.30		124.50	
		1	15.00	8.20	8.10	8.15		122.25	
		1	15.00	8.10	6.60	7.35		110.25	
		1	4.30	6.60	4.40	5.50		23.65	
	1st Cross								
		1	15.00	5.20	4.70	4.95		74.25	
		1	15.00	4.70	5.10	4.90		73.50	
		1	13.50	5.10	5.30	5.20		70.20	
	Deduction for Chambers								
	Chambers	-2	1.00			0.70		-1.40	
	Man holes	-6	0.64	Area of Circle = (3.142*0.9*0.9)/4 = 0.64				-3.84	
				Total Qty =				**1600.61**	**Sqm**
				Total Qty Ltd to App Qty =				**1600.07**	**Sqm**

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Sl No	Description of work	Mesurement						Qty	Rate
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :	19-04-2023							
15	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4 % VG-30 Bitumen								
	New Road								
	New Sai Garden								
	Main Road	1	15.00	9.50	8.30	8.90	0.05	6.68	
		1	15.00	8.30	8.30	8.30	0.05	6.23	
		1	15.00	8.30	8.30	8.30	0.05	6.23	
		1	15.00	8.30	7.90	8.10	0.05	6.08	
		1	15.00	7.90	8.40	8.15	0.05	6.11	
		1	15.00	8.40	8.60	8.50	0.05	6.38	
		1	15.00	8.60	8.40	8.50	0.05	6.38	
		1	15.00	8.40	8.40	8.40	0.05	6.30	
		1	15.00	8.40	8.20	8.30	0.05	6.23	
		1	15.00	8.20	8.10	8.15	0.05	6.11	
		1	15.00	8.10	6.60	7.35	0.05	5.51	
		1	4.30	6.60	4.40	5.50	0.05	1.18	
	1st Cross								
		1	15.00	5.20	4.70	4.95	0.05	3.71	
		1	15.00	4.70	5.10	4.90	0.05	3.68	
		1	13.50	5.10	5.30	5.20	0.05	3.51	
	Deduction for Chambers								
	Chambers	-2	1.00			0.70	0.05	-0.07	
	Man holes	-6	0.64	Area of Circle =			0.05	-0.19	
			Total Qty =					**80.03**	**Cum**
			Total Qty Ltd to App Qty =					**80.00**	**Cum**

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Sl No	Description of work	Mesurement						Qty	Rate
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :	05-05-2023							
16	Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.								
	New Sai Garden								
	Main Road	1	15.00	9.50	8.30	8.90		133.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	7.90	8.10		121.50	
		1	15.00	7.90	8.40	8.15		122.25	
		1	15.00	8.40	8.60	8.50		127.50	
		1	15.00	8.60	8.40	8.50		127.50	
		1	15.00	8.40	8.40	8.40		126.00	
		1	15.00	8.40	8.20	8.30		124.50	
		1	15.00	8.20	8.10	8.15		122.25	
		1	15.00	8.10	6.60	7.35		110.25	
		1	4.30	6.60	4.40	5.50		23.65	
	1st Cross								
		1	15.00	5.20	4.70	4.95		74.25	
		1	15.00	4.70	5.10	4.90		73.50	
		1	13.50	5.10	5.30	5.20		70.20	
	Deduction for Chambers								
	Chambers	-2	1.00			0.70		-1.40	
	Man holes	-6	0.64	Area of Circle =				-3.84	
			Total Qty =					**1600.61**	**Sqm**
			Total Qty Ltd to App Qty =					**1600.07**	**Sqm**

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